



Monday, October 19, 2020

Attn: Ms. Jennifer Atkins  
AECOM  
250 Apollo Drive  
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL 60597375-0500  
SDG ID: GCG97722  
Sample ID#s: CG97722 - CG97723

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

October 19, 2020

SDG I.D.: GCG97722

Project ID: GULF CHELSEA TERMINAL 60597375-0500

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| Client Id   | Lab Id  | Matrix       |
|-------------|---------|--------------|
| OUTFALL 003 | CG97722 | SW DISCHARGE |
| TRIP BLANK  | CG97723 | SW DISCHARGE |



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## Analysis Report

October 19, 2020

FOR: Attn: Ms. Jennifer Atkins  
AECOM  
250 Apollo Drive  
Chelmsford, MA 01824

### Sample Information

Matrix: SW DISCHARGE  
Location Code: AECOME-GULF  
Rush Request: 72 Hour  
P.O.#: 112185

### Custody Information

Collected by:  
Received by: B  
Analyzed by: see "By" below

### Date

10/14/20  
10/15/20

### Time

14:55  
17:05

## Laboratory Data

SDG ID: GCG97722  
Phoenix ID: CG97722

Project ID: GULF CHELSEA TERMINAL 60597375-0500  
Client ID: OUTFALL 003

| Parameter                   | Result    | RL/<br>PQL | Units    | Dilution | Date/Time      | By   | Reference     |
|-----------------------------|-----------|------------|----------|----------|----------------|------|---------------|
| Oil and Grease by EPA 1664A | < 1.4     | 1.4        | mg/L     | 1        | 10/16/20       | MSF  | EPA 1664      |
| pH                          | 8.06      | 1.00       | pH Units | 1        | 10/16/20 00:41 | AP   | SM4500-H B-11 |
| Total Suspended Solids      | 4.7       | 3.3        | mg/L     | 0.7      | 10/16/20       | QH   | SM 2540D-11   |
| Semi-Volatile Extraction    | Completed |            |          |          | 10/15/20       | P/CG | SW3520C       |

### Aromatic Volatiles w/Napthalene

|                             |    |     |      |   |          |    |        |
|-----------------------------|----|-----|------|---|----------|----|--------|
| Benzene                     | ND | 1.0 | ug/L | 1 | 10/16/20 | MH | E624.1 |
| Methyl t-butyl ether (MTBE) | ND | 2.0 | ug/L | 1 | 10/16/20 | MH | E624.1 |
| Napthalene                  | ND | 1.0 | ug/L | 1 | 10/16/20 | MH | E624.1 |

### QA/QC Surrogates

|                          |     |  |   |   |          |    |            |
|--------------------------|-----|--|---|---|----------|----|------------|
| % 1,2-dichlorobenzene-d4 | 100 |  | % | 1 | 10/16/20 | MH | 70 - 130 % |
| % Bromofluorobenzene     | 99  |  | % | 1 | 10/16/20 | MH | 70 - 130 % |
| % Dibromofluoromethane   | 101 |  | % | 1 | 10/16/20 | MH | 70 - 130 % |
| % Toluene-d8             | 104 |  | % | 1 | 10/16/20 | MH | 70 - 130 % |

|         |    |     |      |   |          |    |        |
|---------|----|-----|------|---|----------|----|--------|
| Ethanol | ND | 400 | ug/L | 1 | 10/16/20 | MH | E624.1 |
|---------|----|-----|------|---|----------|----|--------|

### Semivolatiles by SIM, PAH

|                |    |      |      |   |          |    |        |
|----------------|----|------|------|---|----------|----|--------|
| Benzo(a)pyrene | ND | 0.02 | ug/L | 1 | 10/16/20 | PS | E625.1 |
| Napthalene     | ND | 0.10 | ug/L | 1 | 10/16/20 | PS | E625.1 |

### QA/QC Surrogates

|                    |    |  |   |   |          |    |            |
|--------------------|----|--|---|---|----------|----|------------|
| % 2-Fluorobiphenyl | 46 |  | % | 1 | 10/16/20 | PS | 40 - 140 % |
| % Nitrobenzene-d5  | 57 |  | % | 1 | 10/16/20 | PS | 40 - 140 % |
| % Terphenyl-d14    | 42 |  | % | 1 | 10/16/20 | PS | 40 - 140 % |

| Parameter | Result | RL/<br>PQL | Units | Dilution | Date/Time | By |
|-----------|--------|------------|-------|----------|-----------|----|
|-----------|--------|------------|-------|----------|-----------|----|

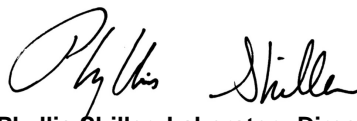
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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Phyllis Shiller, Laboratory Director

October 19, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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## Analysis Report

October 19, 2020

FOR: Attn: Ms. Jennifer Atkins  
AECOM  
250 Apollo Drive  
Chelmsford, MA 01824

### Sample Information

Matrix: SW DISCHARGE  
Location Code: AECOME-GULF  
Rush Request: Standard  
P.O.#: 112185

### Custody Information

Collected by:  
Received by: B  
Analyzed by: see "By" below

### Date

10/14/20  
10/15/20

### Time

8:00  
17:05

## Laboratory Data

SDG ID: GCG97722  
Phoenix ID: CG97723

Project ID: GULF CHELSEA TERMINAL 60597375-0500  
Client ID: TRIP BLANK

| Parameter                                     | Result | RL/<br>PQL | Units | Dilution | Date/Time | By | Reference  |
|---|--------|------------|-------|----------|-----------|----|------------|
| <b><u>Aromatic Volatiles w/Napthalene</u></b> |        |            |       |          |           |    |            |
| Benzene                                       | ND     | 1.0        | ug/L  | 1        | 10/16/20  | MH | E624.1     |
| Methyl t-butyl ether (MTBE)                   | ND     | 2.0        | ug/L  | 1        | 10/16/20  | MH | E624.1     |
| Napthalene                                    | ND     | 1.0        | ug/L  | 1        | 10/16/20  | MH | E624.1     |
| <b><u>QA/QC Surrogates</u></b>                |        |            |       |          |           |    |            |
| % 1,2-dichlorobenzene-d4                      | 100    |            | %     | 1        | 10/16/20  | MH | 70 - 130 % |
| % Bromofluorobenzene                          | 97     |            | %     | 1        | 10/16/20  | MH | 70 - 130 % |
| % Dibromofluoromethane                        | 99     |            | %     | 1        | 10/16/20  | MH | 70 - 130 % |
| % Toluene-d8                                  | 102    |            | %     | 1        | 10/16/20  | MH | 70 - 130 % |
| Ethanol                                       | ND     | 400        | ug/L  | 1        | 10/16/20  | MH | E624.1     |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

October 19, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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## QA/QC Report

October 19, 2020

### QA/QC Data

SDG I.D.: GCG97722

| Parameter  | Blank | Blk<br>RL | Sample<br>Result | Dup<br>Result | Dup<br>RPD | LCS<br>% | LCSD<br>% | LCS<br>RPD | MS<br>% | MSD<br>% | MS<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|--|-------|-----------|------------------|---------------|------------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| QA/QC Batch 549674 (mg/L), QC Sample No: CG97009 (CG97722)               |       |           |                  |               |            |          |           |            |         |          |           |                    |                    |
| Total Suspended Solids   | BRL   | 2.5       | 93               | 100           | 7.30       | 97.0     |           |            |         |          |           | 85 - 115           |                    |
| QA/QC Batch 549676 (mg/L), QC Sample No: CG97194 (CG97722)               |       |           |                  |               |            |          |           |            |         |          |           |                    |                    |
| Oil and Grease by EPA 1664A  | BRL   | 1.4       | <1.4             | <1.4          | NC         | 95.0     |           |            | 92.0    |          |           | 85 - 115           | 20                 |
| Comment:   |       |           |                  |               |            |          |           |            |         |          |           |                    |                    |
| Additional: MS acceptance range 75-125%.                                 |       |           |                  |               |            |          |           |            |         |          |           |                    |                    |
| QA/QC Batch 549701 (pH), QC Sample No: CG97614 (CG97722)                 |       |           |                  |               |            |          |           |            |         |          |           |                    |                    |
| pH   |       |           | 6.49             | 6.47          | 0.30       | 98.8     |           |            |         |          |           | 85 - 115           | 20                 |
| Comment:   |       |           |                  |               |            |          |           |            |         |          |           |                    |                    |
| Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%. |       |           |                  |               |            |          |           |            |         |          |           |                    |                    |



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## QA/QC Report

October 19, 2020

### QA/QC Data

SDG I.D.: GCG97722

| Parameter  | Blank | Blk<br>RL | LCS<br>% | LCSD<br>% | LCS<br>RPD | MS<br>% | MSD<br>% | MS<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|--|-------|-----------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| QA/QC Batch 549613 (ug/L), QC Sample No: CG97289 (CG97722) |       |           |          |           |            |         |          |           |                    |                    |
| <u>Semivolatiles by SIM, PAH</u>                           |       |           |          |           |            |         |          |           |                    |                    |
| Benzo(a)pyrene   | ND    | 0.20      | 70       | 91        | 26.1       |         |          |           | 40 - 140           | 20 r               |
| Naphthalene  | ND    | 0.50      | 82       | 80        | 2.5        |         |          |           | 40 - 140           | 20                 |
| % 2-Fluorobiphenyl   | 75    | %         | 65       | 72        | 10.2       |         |          |           | 40 - 140           | 20                 |
| % Nitrobenzene-d5  | 86    | %         | 81       | 87        | 7.1        |         |          |           | 40 - 140           | 20                 |
| % Terphenyl-d14  | 95    | %         | 78       | 92        | 16.5       |         |          |           | 40 - 140           | 20                 |

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 549911 (ug/L), QC Sample No: CG97723 (CG97722, CG97723)

### Volatiles

|                             |     |      |     |     |     |     |     |     |          |    |
|-----------------------------|-----|------|-----|-----|-----|-----|-----|-----|----------|----|
| Benzene                     | ND  | 0.70 | 104 | 101 | 2.9 | 104 | 103 | 1.0 | 65 - 135 | 20 |
| Methyl t-butyl ether (MTBE) | ND  | 1.0  | 95  | 89  | 6.5 | 107 | 107 | 0.0 | 70 - 130 | 30 |
| Naphthalene                 | ND  | 1.0  | 119 | 119 | 0.0 | 109 | 120 | 9.6 | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4    | 100 | %    | 100 | 100 | 0.0 | 101 | 100 | 1.0 | 70 - 130 | 30 |
| % Bromofluorobenzene        | 97  | %    | 100 | 99  | 1.0 | 103 | 103 | 0.0 | 70 - 130 | 30 |
| % Dibromofluoromethane      | 99  | %    | 98  | 100 | 2.0 | 103 | 98  | 5.0 | 70 - 130 | 30 |
| % Toluene-d8                | 102 | %    | 100 | 100 | 0.0 | 99  | 100 | 1.0 | 70 - 130 | 30 |

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Batch 549910 (ug/L), QC Sample No: CG97723 (CG97722, CG97723)

### Oxygenates

|         |    |     |    |    |     |     |     |     |          |      |
|---------|----|-----|----|----|-----|-----|-----|-----|----------|------|
| Ethanol | ND | 200 | 95 | 86 | 9.9 | 131 | 122 | 7.1 | 70 - 130 | 30 m |
|---------|----|-----|----|----|-----|-----|-----|-----|----------|------|

Comment:

A blank MS/MSD was analyzed with this batch.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

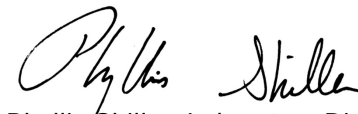
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

  
Phyllis Shiller, Laboratory Director  
October 19, 2020

Monday, October 19, 2020

Criteria: None  
State: MA

Sample Criteria Exceedances Report  
GCG97722 - AECOME-GULF

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL<br>Criteria | Analysis<br>Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





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## Analysis Comments

October 19, 2020

SDG I.D.: GCG97722

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

